

4D' --11. A chemical composition for the deacidification of a porous material, provided in the form of a solution, comprising:

n-propanol;

carbonated magnesium di-n-propylate at a concentration between 30 and 70% in n-propanol; and

a hydrofluorocarbon diluent selected from the group consisting of 1,1,1,2-tetrafluoroethane and 1,1,1,2,3,3,3-heptafluoropropane.

12. A chemical composition according to claim 11, wherein the concentration of carbonated magnesium di-n-propylate in the solution formed in n-propanol and diluent is between 1% and 10% (W/V).

13. A chemical composition according to claim 11, wherein n-propanol concentration is less than 10% (V/V).

14. A chemical composition according to claim 11, wherein the concentration of carbonated magnesium di-n-propylate is between 3.8% and 4.5% (W/V) and the concentration of n-propanol is between 2% and 3.25% (V/V).

15. A method for obtaining a chemical composition for deacidification of cellulose-type material comprising:

preparing a solution of 30 to 70% carbonated magnesium di-n-propylate in n-propanol; and

diluting the solution by addition of a hydrofluorocarbon diluent selected from the group consisting of 1,1,1,2-tetrafluoroethane and 1,1,1,2,3,3,3-heptafluoropropane.

16. A method according to claim 15, in which the preparation of said solution of carbonated magnesium di-n-propylate in n-propanol further comprises:

reacting a prepared suspension of magnesium di-n-propylate in n-propanol with dry gaseous carbon dioxide, until a solution of carbonated magnesium di-n-propylate in n-propanol is obtained; and

separating the solution of carbonated magnesium di-n-propylate from n-propanol.

17. A method according to claim 16, in which the preparation of said suspension of magnesium di-n-propylate in n-propanol comprises:

reacting magnesium metal with anhydrous n-propanol in the presence of iodine at a boiling point temperature.

18. A method according to claim 16, in which the preparation of said suspension of magnesium di-n-propylate in n-propanol comprises:

reacting magnesium metal with anhydrous n-propanol in the presence of iodine at a reflux temperature and adding toluene to form an azeotrope with n-propanol.

19. A method according to claim 16, in which the preparation of said suspension of magnesium di-n-propylate in n-propanol comprises:

reacting magnesium in powder form with a granulometric distribution lying between 50 and 150 m with anhydrous n-propanol in the presence of iodine; and

cooling said reaction mixture to a boiling point temperature when hydrogen is released.

20. A method for de-acidification of a cellulose-type material, comprising:

obtaining a chemical composition comprising a solution of 30 to 70% carbonated magnesium di-n-propylate in n-propanol diluted in a solution of hydrofluorocarbon diluent for de-acidification of cellulose-type material;

applying the chemical composition to the cellulose-type material by spray.--